Wisconsin Land Type Associations (LTAs)

Metadata also available as

Metadata:

- Identification_Information
- Data_Quality_Information
- Spatial_Data_Organization_Information
- Spatial_Reference_Information
- Entity_and_Attribute_Information
- Distribution_Information
- Metadata_Reference_Information

Identification_Information:
    Citation:
        Citation_Information:
            Originator:
                Wisconsin Department of Natural Resources in cooperation with the Wisconsin LTA Project Team
            Publication_Date: 1999
            Title: Wisconsin Land Type Associations (LTAs)
            Geospatial_Data_Presentation_Form: vector digital data
            Publication_Information:
                Publication_Place: Madison, WI
                Publisher: Wisconsin Department of Natural Resources (DNR)
            Online_Linkage: <http://www.dnr.state.wi.us/maps/gis/geolibrary.html>
    Description:
        Abstract:
            Land Type Associations (LTAs) of Wisconsin represent a further definition of the National Hierarchical Framework of Ecological Units (NHFEU). The NHFEU is an ecological classification system that divides landscapes into ecologically significant regions at multiple scales. Ecological types are classified and units are mapped based on the associations of biotic and environmental factors which include climate, physiography, water, soils, air, hyydrology, and potential natural communities.
        Purpose:

In Wisconsin, Land Type Associations and other levels of the NHFEU have been delineated and are being used as large-sacle ecological units for resource assessment and planning projects. Wisconsin delineated the finer "landscape" scale LTA layer of the NHFEU. The development of this layer of infromation supplies a spatially oriented, ecological classification tool that is available to a variety of landowners, land managers, and resource interest groups in Wisconisn and the Great Lake States.

Supplemental_Information:

Land Type Association (LTA) information depicts subregional and landscape ecological units developed according to the classification scheme of the NHFEU (Avers et al., 1994). The LTAs were developed, mapped and described in participation with a variety of agencies, organizations, and individuals. Development of ecological units is an iterative process which will progress as additional information becomes available, and from peer review and comments by users of this information. This data is reviewed annually.

Agencies that participated on the Wisconsin LTA Project Team include the Wisconsin Department of Natural Resources, the Natural Resources Conservation Service, the USDA Forest Service (State and Private Forestry and National Forests), the Wisconsin County Forest Association, the University of Wisconsin (at Madison and Stevens Point), Menominee Tribal Enterprise, and the Wisconsin Geological and Natural History Survey.

The LTA delineations in the NHFEU dataset are presented as an ArcInfo Region feature class ("region.lta"). For a detailed explanation of the contents of the LTA dataset, processing steps used in its development, and guidelines for use of hte LTA dataset information, refer to the following documentation, available upon request from the Wisconsin DNR (see contact information): "LTA Data Dictionary"; "LTA Processing Procedure"; "LTA User's Guide".

Time_Period_of_Content:

   Time_Period_Information:

      Range_of_Dates/Times:

         Beginning_Date: 1999
         Ending_Date: 2003

   Currentness_Reference: publication date

Status:

   Progress: Complete

   Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

   Bounding_Coordinates:

      West_Bounding_Coordinate: -92.964436
      East_Bounding_Coordinate: -86.666230
      North_Bounding_Coordinate: 47.083195

South_Bounding_Coordinate: 42.456931

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: biota.

Theme_Keyword: environment

Theme_Keyword: ecological units

Theme_Keyword: NHFEU

Theme_Keyword: Land Type Associations

Theme_Keyword: LTAs

Theme_Keyword: ecological classification

Theme_Keyword: Wisconsin LTA Project Team

Theme_Keyword: ECOMAP Team

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Wisconsin

Access_Constraints: None.

Use_Constraints: None; see recommendations and guidelines for use.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Wisconsin Department of Natural Resources (DNR)

Contact_Position: GIS Project Lead

Contact_Address:

Address_Type: mailing address

Address: P.O. Box 7921

City: Madison

State_or_Province: WI

Postal_Code: 53707-7921

Country: USA

Contact_Voice_Telephone: (608) 261-6417

Contact_Facsimile_Telephone: (608) 266-0870

Contact_Electronic_Mail_Address: Mitch.Moline@dnr.state.wi.us

Native_Data_Set_Environment:

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 1; ESRI ArcCatalog 8.3.0.800

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

The Wisconsin LTA Project Team has reviwed and edited all information

contained in the LTA dataset.

Logical_Consistency_Report:

> The Wisconsin LTA Project Team has a process of peer review for the LTA dataset information, including linework and attribute information.

> For the digital creation of LTA lines, a process was developed with standard data capture and QA/QC procedures. Coplete detailed information can be reviewed in the "LTA Processing" documentation (see Supplemental Information).

Completeness_Report: All data are reviewed by the Wisconsin LTA Project Team.

Positional_Accuracy:

> *Horizontal_Positional_Accuracy:*

>> *Horizontal_Positional_Accuracy_Report:*

>>> The source data was geometrically compiled on USGS 1:250,000-scale topographic quadrangle maps. Accuracy standards were on the order of RMS error no greater than 0.003.

Lineage:

> *Source_Information:*

>> *Source_Citation:*

>>> *Citation_Information:*

>>>> *Originator:* US Geological Survey (USGS)

>>>> *Publication_Date:* Various

>>>> *Title:* USGS 1:250,000-scale Topographic Quadrangles

>>>> *Geospatial_Data_Presentation_Form:* map

>>>> *Other_Citation_Details:*

>>>>> Land Type Associations compiled by the work of the Wisconsin LTA Project Team: Joe Kovach, Darrell Zastro, Bob Goldman, Mitch Moline, Mike Beaufeaux, Chuck Adams, Mark Heyde, Paul Westegaard, Scott Mueller, David Hvizdak, Tim Meyer, Lenny Kemph, Dave Hoppe, Jim Jordan, Dr. John Attig, Dr. John Kotar, Mark Krupinski.

>>>> *Online_Linkage:* <http://www.dnr.state.wi.us/maps/gis/geolibrary.html>

>> *Source_Scale_Denominator:* 250000

>> *Type_of_Source_Media:* Paper maps

>> *Source_Contribution:* Line geometry and attribution.

> *Process_Step:*

>> *Process_Description:*

>>> Linework was digitized from base maps (USGS 1:250,000-scale quadrangles), data base and attributes were obtained from existing GIS datasets through geoprocessing of spatial overlays of dBase files created by the Wisconsin LTA Project Team. See also the "LTA Processing" documentation.

Periodically the ArcInfo feature class "region.lta" is converted to polygon shapefile format distribution and use.

Process_Date: 1994-2003

Process_Contact:

    Contact_Information:

        Contact_Organization_Primary:

            Contact_Organization: Wisconsin DNR

        Contact_Position: GIS Project Lead

        Contact_Address:

            Address_Type: mailing address

            Address: P.O. Box 7921

            City: Madison

            State_or_Province: WI

            Postal_Code: 53707-7921

            Country: USA

        Contact_Voice_Telephone: (608) 261-6417

        Contact_Facsimile_Telephone: (608) 266-0870

        Contact_Electronic_Mail_Address: Mitch.Moline@dnr.state.wi.us

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Spatial_Data_Organization_Information:

    Direct_Spatial_Reference_Method: Vector

    Point_and_Vector_Object_Information:

        SDTS_Terms_Description:

            SDTS_Point_and_Vector_Object_Type: G-polygon

            Point_and_Vector_Object_Count: 291

Spatial_Reference_Information:

    Horizontal_Coordinate_System_Definition:

        Planar:

            Map_Projection:

                Map_Projection_Name: Transverse Mercator

                Transverse_Mercator:

                    Scale_Factor_at_Central_Meridian: 0.999600

                    Longitude_of_Central_Meridian: -90.000000

                    Latitude_of_Projection_Origin: 0.000000

                    False_Easting: 520000.000000

                    False_Northing: -4480000.000000

            Planar_Coordinate_Information:

                Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:
    Abscissa_Resolution: 0.001024
    Ordinate_Resolution: 0.001024
Planar_Distance_Units: meters
Geodetic_Model:
    Horizontal_Datum_Name: D_North_American_1983_HARN
    Ellipsoid_Name: Geodetic Reference System 80
    Semi-major_Axis: 6378137.000000
    Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:
    Detailed_Description:
        Entity_Type:
            Entity_Type_Label: feurlta
        Attribute:
            Attribute_Label: FID
            Attribute_Definition: Internal feature number.
            Attribute_Definition_Source: ESRI
            Attribute_Domain_Values:
                Unrepresentable_Domain:
                    Sequential unique whole numbers that are automatically generated.
        Attribute:
            Attribute_Label: Shape
            Attribute_Definition: Feature geometry.
            Attribute_Definition_Source: ESRI
            Attribute_Domain_Values:
                Unrepresentable_Domain: Coordinates defining the features.
        Attribute:
            Attribute_Label: AREA
        Attribute:
            Attribute_Label: PERIMETER
        Attribute:
            Attribute_Label: LTA_
        Attribute:
            Attribute_Label: LTA_ID
        Attribute:
            Attribute_Label: LTA
        Attribute:
            Attribute_Label: DESCRIPTIO
        Attribute:
            Attribute_Label: NAME

Attribute:

    Attribute_Label: SQ_MILES

Attribute:

    Attribute_Label: ACRES

Overview_Description:

    Entity_and_Attribute_Overview:

        Each polygon within the Land Type Association dataset has a 12-bit value which corresponds to the NHFEU. The NHFEU is a hierarchical ecological scheme as described by the ECOMAP Team (Avers at. a. - 1994). This 12-bit code is the basis for the creation of the ArcInfo Regions representing the levels within the NHFEU to which each polygon belongs.

    Entity_and_Attribute_Detail_Citation:

        For a complete explanation of the LTA dataset and data model, refer to documents cited in the Supplemental Information Section.

Distribution_Information:

    Distributor:

        Contact_Information:

            Contact_Organization_Primary:

                Contact_Organization: Wisconsin DNR, Division of Forestry

            Contact_Position: GIS Project Lead

            Contact_Address:

                Address_Type: mailing address

                Address: P.O. Box 7921

                City: Madison

                State_or_Province: WI

                Postal_Code: 53707-7921

                Country: USA

            Contact_Voice_Telephone: (608) 261-6417

            Contact_Facsimile_Telephone: (608) 266-0870

            Contact_Electronic_Mail_Address: Mitch.Moline@dnr.state.wi.us

    Resource_Description: Downloadable data

    Distribution_Liability:

        Refer to <http://www.dnr.state.wi.us/org/legal/WebSiteLegalInformation.html>

    Standard_Order_Process:

        Digital_Form:

            Digital_Transfer_Information:

                Transfer_Size: 11.815

            Digital_Transfer_Option:

                Online_Option:

                    Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

<http://www.dnr.state.wi.us/org/land/forestry/ GIS/Data_Maps/data_download/index. htm#available>

Access_Instructions: Download LTA data from the DNR Division of Forestry website.

Offline_Option:

Offline_Media: CD-ROM

Compatibility_Information:

ISO 9660 format allows the CDROM to be read by most computer operating systems.

Ordering_Instructions:

Refer to the DNR GIS website: <http://www.dnr.state.wi.us/maps/gis/geolibrary. html>

Metadata_Reference_Information:

Metadata_Date: 20040309, 20050506

Metadata_Review_Date: 20040309

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Wisconsin DNR, Bureau of Technololgy Services

Contact_Position: GIS Data Specialist

Contact_Address:

Address_Type: mailing address

Address: P.O. Box 7921

City: Madison

State_or_Province: WI

Postal_Code: 53707-7921

Country: USA

Contact_Voice_Telephone: (608) 264-8914

Contact_Facsimile_Telephone: (608) 266-0870

Contact_Electronic_Mail_Address: John.Laedlelin@dnr.state.wi.us

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>

Profile_Name: ESRI Metadata Profile

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